AUTODOC CLUB

How to change engine oil and filter on **MERCEDES-BENZ E-Class T-modell (S211)** – replacement guide

SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

Important!

This replacement procedure can be used for:
MERCEDES-BENZ E-Class T-modell (S211) E 220 T CDI, MERCEDES-BENZ E-Class T-modell (S211) E 220 T CDI (211.206, 211.606), MERCEDES-BENZ E-Class T-modell (S211) E 270 T CDI (211.216), MERCEDES-BENZ E-Class T-modell (S211) E 220 T CDI (211.208), MERCEDES-BENZ E-Class T-modell (S211) E 220 CDI (211.206), MERCEDES-BENZ E-Class T-modell (S211) E 200 CDI (211.207)

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: MERCEDES-BENZ VITO Bus (638) 112 CDI 2.2 (638.194)

REPLACEMENT: ENGINE OIL AND FILTER – MERCEDES-BENZ E-CLASS T-MODELL (S211). TOOLS YOU MIGHT NEED:



- All-purpose cleaning spray
- Oil filter cup socket 76-14F
- Drive socket # 13
- Combination spanner #13
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Funnel
- Oil drain pan
- Microfibre towel
- Fender cover

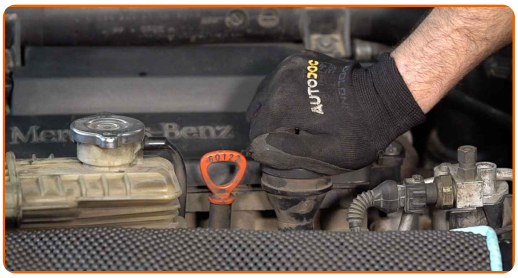
Buy tools

AUTODOC recommends:

- Replace the oil filter every time when changing motor oil.
- Warning! Shut down the engine before starting any work – MERCEDES-BENZ E-Class T-modell (S211).
- Wear gloves to prevent contact with hot liquid.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1. Open the hood.
2. Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.
3. Unscrew the oil filler plug.

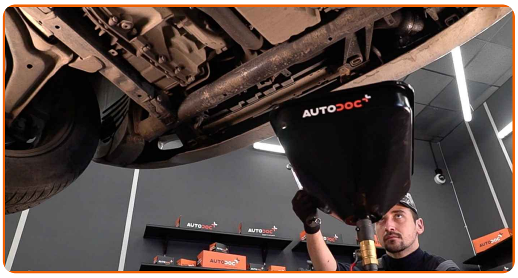


4. Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.
5. Lift the car using a jack or place it over an inspection pit.

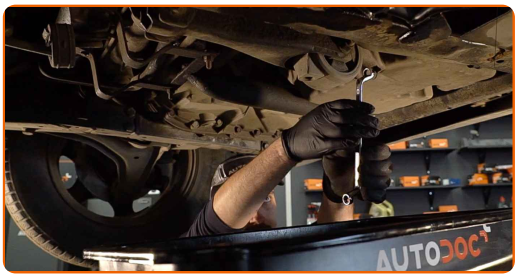
Replacement: engine oil and filter – MERCEDES-BENZ E-Class T-modell (S211). Tip from AUTODOC:

- The vehicle must be on even keel, and if it is at an angle, the drain plug must be at the lowest point.

6 Put a waste oil container with at least 8 l capacity under the drainage hole.



7 Unscrew the drain plug. Use a combination spanner #13.



8 Drain the used oil.



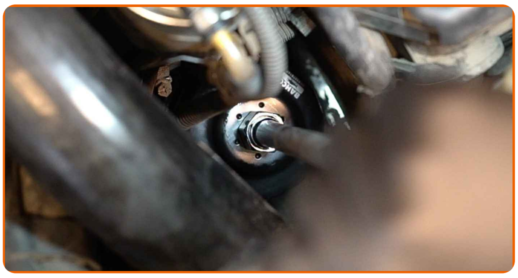
Replacement: engine oil and filter – MERCEDES-BENZ E-Class T-modell (S211). Tip from AUTODOC experts:

- Caution! The oil may be hot.

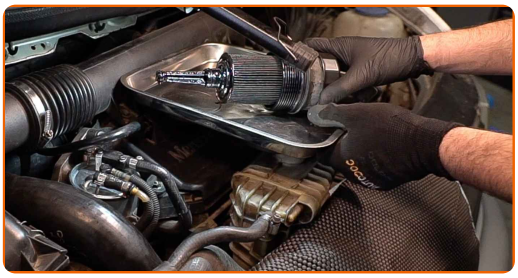
9 Clean the oil filter housing cap. Use all-purpose cleaning spray.



10 Unscrew the oil filter. Use the 76-14F socket. Use a ratchet wrench.



11 Remove the oil filter. Put the old oil filter in the container.



Replacement: engine oil and filter – MERCEDES-BENZ E-Class T-modell (S211). Tip:

- Move up the container. The oil starts to drain out of the drainage hole immediately after you have removed the oil filter.

12 Cover the oil filter housing with a microfibre towel to prevent dirt and foreign objects from getting into the system.

13 Detach the oil filter from the filter cover.



14 Remove old o-rings from the oil filter cover. Use a flat screwdriver.



15 Clean the oil filter housing cap. Use all-purpose cleaning spray.



16 Install new O-rings and a new oil filter to their mounting seats on the filter cover.

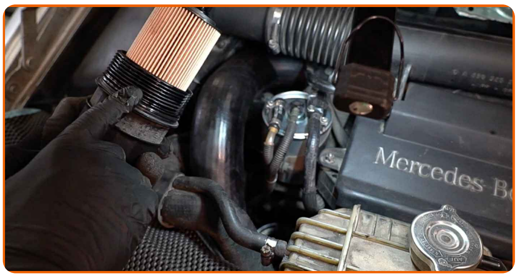


Please note!

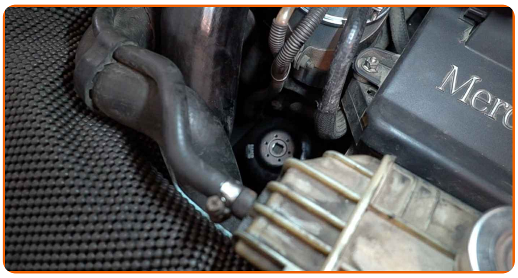
- Make sure to install the filter correctly. Don't mix up the sides of the part.

17 Remove the microfibre towel from the oil filter housing.

18 Lubricate the rubber seal of the new filter with a little amount of fresh oil.



19 Screw the new filter into its place.



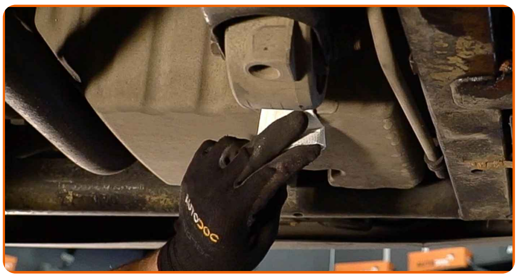
20 Screw the cap. Use the 76-14F socket. Use a torque wrench. Tighten it to 25 Nm torque.



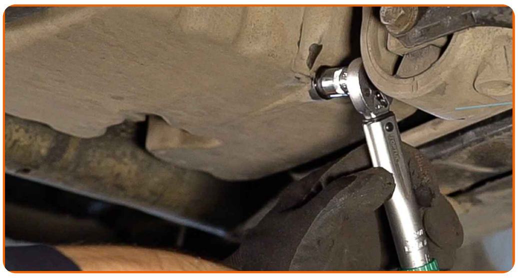
AUTODOC recommends:

- Wait until the oil has completely drained from the drainage hole.

21 Clean the area of the oil pan drainage hole.



22 Screw in the new drainage plug and tighten it. Use a drive socket #13. Use a torque wrench. Tighten it to 30 Nm torque.



23 Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.



24 Lower the car.

25 Remove the oil filler cap. Insert the funnel.



26 Pour new oil into the engine in the amount recommended by the car manufacturer.



AUTODOC recommends:

- Use the oil recommended by the manufacturer.

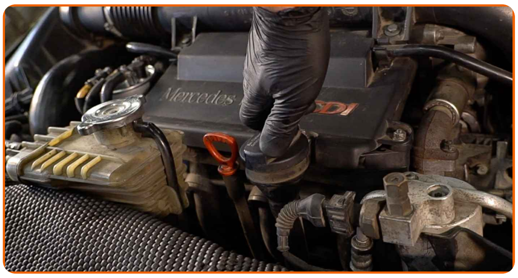
27 Check the oil level using the dipstick. Top up oil if necessary.



Please note!

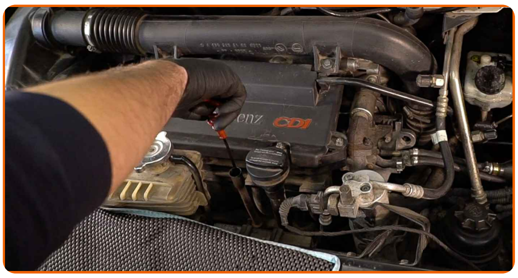
- The oil level should be between the Min and Max marks.

28 Tighten the oil filler cap.



29 Run the engine for a few minutes. After the oil pressure warning light goes out, stop the engine.

30 Check the oil level 5 minutes after the stop of the engine operation using a dipstick and add oil if necessary.



Replacement: engine oil and filter – MERCEDES-BENZ E-Class T-modell (S211). AUTODOC experts recommend:

- The oil level should be between the Min and Max marks.
- Make sure that the oil filler cap is properly tightened.
- Check the threaded plug of the drainage hole and the oil filter seal for tightness. If necessary, carefully tighten them up.

31 Remove the fender protection cover.

32 Close the hood.

Replacement: engine oil and filter – MERCEDES-BENZ E-Class T-modell (S211). Tip:

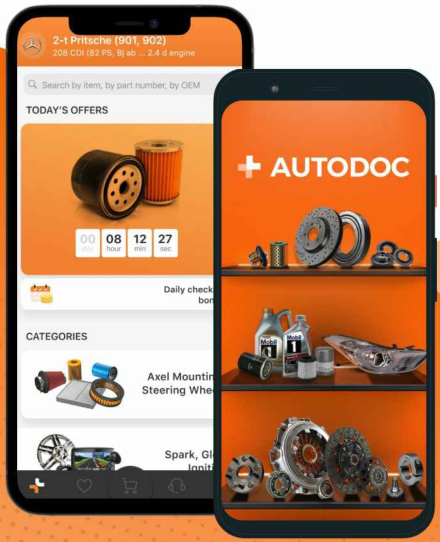
- Note that oil pressure warning light, which indicates insufficient pressure in the lubrication system, may be on for a longer time than usual. After a few seconds, the oil will fill all the channels, and the light will go out.
- To protect the environment from pollution, be sure to dispose of the used filters at special collection points.

WELL DONE!

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